CLAIMS:

What is claimed is:

1. 1. A method comprising:

2. receiving a request to establish a communication session between a subscriber unit in a

3. wireless communication system and a data network access server through a basestation; and

4. selectively generating a communication session identifier to uniquely identify the

5. communication session from a plurality of communication sessions supported by the network

6. access server to enable mobility management within the point-to-point communication session

7. between the basestation and the network access server.

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1. 2. A method according to claim 1, further comprising:

2. determining, at the network access server, whether the received request is a request for a

3. new communication session or a handoff of an existing communication session.

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1. 3. A method according to claim 2, wherein generation of the communication session

2. identifier is selectively performed if the received request is a request for a new communication

3. session.

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1. 4. A method according to claim 2, wherein determining comprises:

2. analyzing attribute-value pair(s) (AVP) of the received incoming call request to identify a

3. callType AVP; and

4　　identifying the incoming call request as a request for a new communication session if the

5　　callType AVP is absent from the incoming call request, or an identified callType AVP associated

6　　with the incoming call request denotes a new call.

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1　　5.　　A method according to claim 1, wherein selectively generating the communication

2　　session identifier comprises:

3　　　　composing a deterministic element of the communication session identifier;

4　　　　composing a random element of the communication session identifier; and

5　　　　employing a mathematical function to generate the communication session identifier

6　　using the deterministic element and the random element.

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1　　6.　　A method according to claim 5, wherein the deterministic element is comprised of one or

2　　more of an electronic serial number (ESN) of the accessing subscriber unit, a media access

3　　control (MAC) address of the subscriber unit, and/or a telephone number associated with the

4　　subscriber unit.

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1　　7.　　A method according to claim 5, wherein the random element is comprised of one or more

2　　of a pseudo-random number, and/or a true random number generated from radio frequency (RF)

3　　energy of thermal noise associated with the communication session.

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1　　8.　　A method according to claim 5, wherein the function employed concatenates the

2　　deterministic element and the random element to generate the communication session identifier.

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1 9. A method according to claim 5, wherein the function employed generates a hash of the

2 deterministic element and the random element to generate the communication session identifier.

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1 10. A machine accessible storage medium comprising a plurality of executable instructions

2 which, when executed by an accessing computing device, implement the method according to

3 claim 1.

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1 11. An apparatus comprising:

2 a network interface, to receive a request for a point-to-point communication session

3 between a wireless communication system subscriber unit and the apparatus through a

4 basestation; and

5 a communications agent, to selectively generate a communication session identifier to

6 uniquely identify the communication session from a plurality of communication sessions

7 supported by the apparatus to enable mobility management within the point-to-point

8 communication session between the basestation and the network access server.

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1 12. An apparatus according to claim 11, wherein the communications agent determines

2 whether the received request is a request for a new communication session or a handoff of an

3 existing communication session.

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1 13. An apparatus according to claim 11, wherein communications agent comprises:

2   a session identification generator, selectively invoked by communications agent, to

3   dynamically generate a communication session identifier including at least a deterministic

4   element and a random element.

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1   14.   An apparatus according to claim 13, wherein communications agent analyzes attribute-

2   value pair(s) (AVP) of a received incoming call request control command to identify a callType

3   AVP to determine whether the incoming call request indicates a new communication session or a

4   handoff of an existing communication session.

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1   15.   An apparatus according to claim 14, wherein communications agent selectively invokes

2   communication session identification generator if the AVP denotes a newCall call type, or if the

3   callType AVP is not identified within the incoming call request control command.

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1   16.   An apparatus according to claim 13, wherein the session identification generator

2   composes the deterministic element using one or more of an electronic serial number (ESN) of

3   the accessing subscriber unit, a media access control (MAC) address of the subscriber unit,

4   and/or a telephone number of the subscriber unit.

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1   17.   An apparatus according to claim 13, wherein the session identification generator

2   composes the random element of the session identifier utilizing a pseudo-random number

3   generator.

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1   18.   An apparatus according to claim 13, wherein the session identification generator

2   composes the random element of the session identifier by generating a true random number from

3   radio frequency (RF) thermal noise.

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1   19.   An apparatus according to claim 13, wherein the session identification generator

2   composes a session identifier for the communication session by computing a function of one or

3   more of at least the deterministic element and/or the random element.

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1   20.   A machine accessible medium having stored therein a plurality of executable instructions

2   which, when executed by an accessing machine, implement a communications agent to receive a

3   request from a wireless communication system subscriber unit through a basestation for a point-

4   to-point communication session with the machine and to selectively generate a communication

5   session identifier to uniquely identify the communication session from one or more of a plurality

6   of communication sessions supported by the machine, and to enable mobility management

7   within the point-to-point communication session between the basestation and the machine.

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1   21.   A machine accessible medium according to claim 20, wherein the medium is a storage

2   device.

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1   22.   A machine accessible medium according to claim 20, wherein the medium is a

2   propagated signal.

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1   23.   A machine accessible medium according to claim 20, wherein the communications agent

2   generates the session identifier upon determining that an incoming call request is for a new

3   communication session and not a handoff of an existing communication session.

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1   24.   A machine accessible medium according to claim 23, wherein the communications agent

2   dynamically generates a unique session identifier including a deterministic element and a random

3   element.